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Raw Sequence Listing

Patent Application US/07/807,043

(1) GENERAL INFORMATION: 3 APPLICANTS: Boon, Thierry, Van den Eynde, Beno t 4 See P. 1. 18 5 (ii) TITLE OF INVENTION: Tumor Rejection Antigen Precursors, Tumor 6 Rejection Antigens and Uses Thereof 7 8 (iii) NUMBER OF SEQUENCES: 9 10 (iv) CORRESPONDENCE ADDRESS: (A) ADDRESSEE: Felfe & Lynch 11 (B) STREET: 805 Third Avenue 12 13 (C) CITY: New York City 14 (D) STATE: New York 15 (F) ZIP: 10022 17 (v) COMPUTER READABLE FORM: (A) MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage 18 19 (B) COMPUTER: IBM 20 (C) OPERATING SYSTEM: PC-DOS 21 (D) SOFTWARE: Wordperfect 22 23 (vi) CURRENT APPLICATION DATA: 24 (A) APPLICATION NUMBER: 07/807,043 25 (B) FILING DATE: 12-DECEMBER-1991 (C) CLASSIFICATION: 26 27 28 (vii) PRIOR APPLICATION DATA: 29 (A) APPLICATION NUMBER: 07/764,364 30 (B) FILING DATE: 23-SEPTEMBER-1991 31 32 (vii) PRIOR APPLICATION DATA: 33
34 Cap (A) APPLICATION NUMBER: 07/728,838
34 Cap (b) FILING DATE: 9-JULY-1991 35 36 (vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 07/705,702 37 38 (B) FILING DATE: 23-May-1991 39 40 (viii) ATTORNEY/AGENT INFORMATION: 41 (A) NAME: Hanson, Norman D. 42 (B) REGISTRATION NUMBER: 30,946 43 (C) REFERENCE/DOCKET NUMBER: LUD 253.3 44 (ix) TELECOMMUNICATION INFORMATION: 45 46 (A) TELEPHONE: (212) 688-9200 47 (B) TELEFAX: (212) 838-3884 48 49 50 (2) INFORMATION FOR SEQUENCE ID NO: 1: 51 (i) SEQUENCE CHARACTERISTICS: 52 (A) LENGTH: 462 base pairs 53 (B) TYPE: nucleic acid If is mandadory for each nucleic sequence.

(Insert for all 16 sequences) C)Strandedness:

Raw Sequence Listing

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54 55 56 57 58 59 60 61	ACC	(x:	L) MC L) SI	DLECT EQUE	JLE 1	DESCI	e ge RIPT:	ION:	SEÇ	O ID			:ATG	rgt (SAAG)	ATCCTG	60
62																ACTGTT	120
63																CTCTAG	180
64																CCCTC	240
65																CCGTAT	300
66	AGA	ACTC	TTC (CGGA	GAAG	GG AC	GGA	GAC	c cc	cccc	CTTT	GCT	CTCC	CAG (CATG	CATTGT	360
67																FACTCT	420
68	TATO	CTTA	ACT 1	rage:	rcgg	CT TO	CTG	CTGG	r ac	CCTT	rgtg	CC					462
69																	
70																	
71	(2)		FORM			-	_			: 2:							
72		(i)) SEQ														
73			•	A) LI					pai	rs							
74			•	•		nuc			ıa								
75 76		, .	•	•		OGY:		near	ia Di	.T.N.							
70 77		•	i) MO i) Si				_				NO.	2.					
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79																	
80	ATG	TCT	GAT	AAC	AAG	AAA	CCA	GAC	AAA	GCC	CAC	AGT	GGC	TCA	GGT	GGT	48
81			Asp														
82			•		⁻ 5	-		-	•	10			•		15	-	
83																	
84			GAT														96
85	Asp	Gly	Asp	Gly	Asn	Arg	Сув	Asn	Leu	Leu	His	Arg	Tyr	Ser	Leu	Glu	
86				20					25					30			
87																	
88			CTG														144
89	GIu	ITe	Leu	Pro	Tyr	Leu	Gly		Leu	Val	Phe	Ala		Val	Thr	Thr	
90 91			35					40					45				
92	እርጥ	արար	CTG	aca	CTC	CAG	አጥር	ጥጥር	አጥአ	CAC	GCC	СПП	ጥልጥ	CAC	CAC	CAC	192
93			Leu														192
94	001	50	204	****	Deu	01	55		110	5	u	60	-1-	Olu	Olu	01	
95												•					
96	TAT	GAA	AGG	GAT	GTG	GCC	TGG	ATA	GCC	AGG	CAA	AGC	AAG	CGC	ATG	TCC	240
97			Arg														
98	65		_	-		70	-			_	75		-	_		80	
99																	
100	TCT	GTC	GAT	GAG	GAT	GAA	GAC	GAT	GAG	GAT	GAT	GAG	GAT	GAC	TAC	TAC	288
101	Ser	Val	Asp	Glu	Asp	Glu	Asp	Asp	Glu		Asp	Glu	Asp	Asp		Tyr	
102					85					90					95		
103																	
104			GAG														336
105 106	Asp	Asp	Glu	100	Asp	Asp	Asp	Asp	Ala 105	rne	Tyr	Asp	Asp	110	Asp	Asp	

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107																	•
108	GAG	GAA	GAA	GAA	TTG	GAG	AAC	CTG	ATG	GAT	GAT	GAA	TCA	GAA	GAT	GAG	384
109	Glu	Glu	Glu	Glu	Leu	Glu	Asn	Leu	Met	Asp	Asp	Glu	Ser	Glu	Asp	Glu	
110			115					120		_	_		125		_		
111																	
112	GCC	GAA	GAA	GAG	ATG	AGC	GTG	GAA	ATG	GGT	GCC	GGA	GCT	GAG	GAA	ATG	432
113	Ala	Glu	Glu	Glu	Met	Ser	Val	Glu	Met	Gly	Ala	Gly	Ala	Glu	Glu	Met	
114		130					135					140					
115																	
116	GGT	GCT	GGC	GCT	AAC	TGT	GCC	TGT	GTT	CCT	GGC	CAT	CAT	TTA	AGG	AAG	480
117	Gly	Ala	Gly	Ala	Asn	Сув	Ala	Сув	Val	Pro	Gly	His	His	Leu	Arg	Lys	
118	145					150					155					160	
119																	
120	AAT	GAA	GTG	AAG	TGT	AGG	ATG	ATT	TAT	TTC	TTC	CAC	GAC	CCT	AAT	TTC	528
121	Asn	Glu	Val	Lys	Cys	Arg	Met	Ile	Tyr	Phe	Phe	His	Asp	Pro	Asn	Phe	
122					165					170					175		
123																	
124	CTG	GTG	TCT	ATA	CCA	GTG	AAC	CCT	AAG	GAA	CAA	ATG	GAG	TGT	AGG	TGT	576
125	Leu	Val	Ser	Ile	Pro	Val	Asn	Pro	Lys	Glu	Gln	Met	Glu	Cys	Arg	Cys	
126				180					185					190			
127																	
128	GAA	AAT	GCT	GAT	GAA	GAG	GTT	GCA	ATG	GAA	GAG	GAA	GAA	GAA	GAA	GAG	624
129	Glu	Asn	Ala	Asp	Glu	Glu	Val	Ala	Met	Glu	Glu	Glu	Glu	Glu	Glu	Glu	
130			195					200				205					
131																	
132				GAG													672
133	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Met	Gly	Asn	Pro	Asp	Gly	Phe	Ser	Pro	
134	210					215					220					225	
135																	
136	TAG																675
137																	
138	(2)			OITA		•	_			: 3:							
139		(i		QUEN													
140			•	A) LI					pair	cs							
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142) T				near									
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144		(x:	ı) SI	EQUE	NCE I	DESCI	KIPT:	TON:	SEÇ	2 ID	NO:	3:					
145																	
146 147																	
147																	
	0031	maan	-mm /	7033										.	nmom		
149 150																ITTTTT IAAAGT	60
150																PAAAGT PGATAC	120
151				AAGA: ACTT(JATA.	IGATAC	180
153	WIW(JGMT.	INC /	nCIT(FIAC	JI G	THM	nnn'I'	a AAA	ag IT.	LGAC	116	-WIW	_			228
153																	
154																	
156	(2)	TNI	гориз	ATIO	T POI) CE/	ጎ፤፤ምእ፣	יד קר	א אי	. / .							
157	(2)			QUEN			_			. 7.							
158		(τ		A) LI					pa:	ira							
159			•	B) T				Dase:	•								
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160	(D) TOPOLOGY: linear	
161	(ii) MOLECULE TYPE: genomic DNA	
162	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:	
163	· · · ·	
164		
165		
166		
167	ACCACAGGAG AATGAAAAGA ACCCGGGACT CCCAAAGACG CTAGATGTGT	50
168	GAAGATCCTG ATCACTCATT GGGTGTCTGA GTTCTGCGAT ATTCATCCCT	100
169	CAGCCAATGA GCTTACTGTT CTCGTGGGGG GTTTGTGAGC CTTGGGTAGG	150
170	AAGTTTTGCA AGTTCCGCCT ACAGCTCTAG CTTGTGAATT TGTACCCTTT	200
171	CACGTAAAAA AGTAGTCCAG AGTTTACTAC ACCCTCCCTC CCCCCTCCCA	250
172	CCTCGTGCTG TGCTGAGTTT AGAAGTCTTC CTTATAGAAG TCTTCCGTAT	300
173	AGAACTCTTC CGGAGGAAGG AGGGAGGACC CCCCCCTTT GCTCTCCCAG	350
174	CATGCATTGT GTCAACGCCA TTGCACTGAG CTGGTCGAAG AAGTAAGCCG	400
175	CTAGCTTGCG ACTCTACTCT TATCTTAACT TAGCTCGGCT TCCTGCTGGT	450
176	ACCCTTTGTG CC	462
177	ATG TCT GAT AAC AAG AAA CCA GAC AAA GCC CAC AGT GGC TCA	504
178	GGT GGT GAC GGT GAT GGG AAT AGG TGC AAT TTA TTG CAC CGG	546
179	TAC TCC CTG GAA GAA ATT CTG CCT TAT CTA GGG TGG CTG GTC	588
180	TTC GCT GTT GTC ACA ACA AGT TTT CTG GCG CTC CAG ATG TTC	630
181	ATA GAC GCC CTT TAT GAG GAG CAG TAT GAA AGG GAT GTG GCC	672
182	TGG ATA GCC AGG CAA AGC AAG CGC ATG TCC TCT GTC GAT GAG	714
183	GAT GAA GAC GAT GAG GAT GAG GAT GAC TAC TAC GAC GAC	756
184	GAG GAC GAC GAC GAT GCC TTC TAT GAT GAT GAG GAT GAT	798
185	GAG GAA GAA TTG GAG AAC CTG ATG GAT GAT GAA TCA GAA	840
186	GAT GAG GCC GAA GAA GAG ATG AGC GTG GAA ATG GGT GCC GGA	882
187	GCT GAG GAA ATG GGT GCT GGC GCT AAC TGT GCC TGT GTT CCT	924
188	GGC CAT CAT TTA AGG AAG AAT GAA GTG AAG TGT AGG ATG AT	966
189	TAT TTC TTC CAC GAC CCT AAT TTC CTG GTG TCT ATA CCA GTG	1008
190	AAC CCT AAG GAA CAA ATG GAG TGT AGG TGT GAA AAT GCT GAT	1050
191	GAA GAG GTT GCA ATG GAA GAG GAA GAA GAA GAG GAG GAG	1092
192	GAG GAG GAA GAG GAA ATG GGA AAC CCG GAT GGC TTC TCA CCT	1134
193	TAG	1137
194	GCATGCAGTT GCAAAGCCCA GAAGAAAGAA ATGGACAGCG GAAGAAGTGG	1187
195	TTGTTTTTTT TTCCCCTTCA TTAATTTTCT AGTTTTTAGT AATCCAGAAA	1237
196	ATTTGATTTT GTTCTAAAGT TCATTATGCA AAGATGTCAC CAACAGACTT	1237
197	CTGACTGCAT GGTGAACTTT CATATGATAC ATAGGATTAC ACTTGTACCT	1337
198	GTTAAAAATA AAAGTTTGAC TTGCATAC	
199	GITAMAMIA MANGITIGAC TIGCATAC	1365
200		
200		
	/2) INFORMATON FOR CHONISHED IN NO. F.	
202	(2) INFORMATION FOR SEQUENCE ID NO: 5:	
203	(i) SEQUENCE CHARACTERISTICS:	
204	(A) LENGTH: 4698 base pairs	
205	(B) TYPE: nucleic acid	
206	(D) TOPOLOGY: linear	
207	(ii) MOLECULE TYPE: genomic DNA	
208	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:	
209		
210		
211	200202020 22002222202 2000000 000222020 00022	

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214	CAGCCAATGA GCTTACTGTT C	TCGTGGGGG GTTTGTGAGC	CTTGGGTAGG	150
215	AAGTTTTGCA AGTTCCGCCT A	CAGCTCTAG CTTGTGAATT	TGTACCCTTT	200
216	CACGTAAAAA AGTAGTCCAG A	GTTTACTAC ACCCTCCCTC	CCCCTCCCA	250
217	CCTCGTGCTG TGCTGAGTTT A	GAAGTCTTC CTTATAGAAG	TCTTCCGTAT	300
218	AGAACTCTTC CGGAGGAAGG A	GGGAGGACC CCCCCCTTT	GCTCTCCCAG	350
219	CATGCATTGT GTCAACGCCA T	TGCACTGAG CTGGTCGAAG	AAGTAAGCCG	400
220	CTAGCTTGCG ACTCTACTCT T	ATCTTAACT TAGCTCGGCT	TCCTGCTGGT	450
221	ACCCTTTGTG CC			462
222	ATG TCT GAT AAC AAG AAA	CCA GAC AAA GCC CAC	AGT GGC TCA	504
223	GGT GGT GAC GGT GAT GGG	AAT AGG TGC AAT TTA	TTG CAC CGG	546
224	TAC TCC CTG GAA GAA ATT	CTG CCT TAT CTA GGG	TGG CTG GTC	588
225	TTC GCT GTT GTC ACA ACA			630
226	ATA GAC GCC CTT TAT GAG			672
227	TGG ATA GCC AGG CAA AGC	AAG CGC ATG TCC TCT	GTC GAT GAG	714
228	GAT GAA GAC GAT GAG GAT	GAT GAG GAT GAC TAC	TAC GAC GAC	756
229	GAG GAC GAC GAC GAT			798
230	GAG GAA GAA TTG GAG			840
231	GAT GAG GCC GAA GAA GAG	ATG AGC GTG GAA ATG	GGT GCC GGA	882
232	GCT GAG GAA ATG GGT GCT	GGC GCT AAC TGT GCC	T	916
233	GTGAGTAACC CGTGGTCTTT A			966
234	CTCTTGCCCA CATCTGTAGT A			1016
235	TGGAGCCATT CCTGGCTCTC C			1066
236	CCCCACTCCT TGCTCCGCTC T			1116
237	TTCAGTCCAT CCTGCTCTGC T	CCCTTTCCC CTTTGCTCTC	CTTGCTCCCC	1166
238	TCCCCCTCGG CTCAACTTTT C	GTGCCTTCT GCTCTCTGAT	CCCCACCCTC	1216
239	TTCAGGCTTC CCCATTTGCT C	CTCTCCCGA AACCCTCCCC	TTCCTGTTCC	1266
240	CCTTTTCGCG CCTTTTCTTT C	CTGCTCCCC TCCCCCTCCC	TATTTACCTT	1316
241	TCACCAGCTT TGCTCTCCCT G	CTCCCCTCC CCCTTTTGCA	CCTTTTCTTT	1366
242	TCCTGCTCCC CTCCCCCTCC C	CTCCCTGTT TACCCTTCAC	CGCTTTTCCT	1416
243	CTACCTGCTT CCCTCCCCT T	GCTGCTCCC TCCCTATTTG	CATTTTCGGG	1466
244	TGCTCCTCCC TCCCCCTCCC C			1516
245	CCTCCCTCCC CCTCCCCAGG C			1566
246	TTGGTTTTTC GAGACAGGGT T			1616
247	TCACTCTGTA GACCAGGCTG G			1666
248	CCTCCCAAAT GCTGGGATTA A			1716
249	GCCTTTCTTT TTTCTCCTCT C			1766
250	AACTCCCCTT TTGGCACCTT T			1816
251	TTCCCTTCCG GCACCCTTCC T			1866
252	CCTCCCCTC TTTGCTCGAC T			1916
253	GCCCGTTCC CCTTTTTGT G			1966
254	AGCTCACCTT TTTGTTTGTT T			2016
255	TTTTTTTTT GCACCTTGTT T			2066
256	CCTCTGTGTG CCTTTCCTGT T			2116
257	TCTGCCTTTC CTGTCCCTGC T			2166
258	CTTTTCTAGA CTCCCCCTC C			2216
259	CCTGACCCTG CTCCCCTTCC C			2266
260	CCTTTCTCCA GCCTGTCACC C			2316
261	TCCTGCTTCC TTTACCCCTT C			2366
262	GACTTCCTCT CCAGCCGCCC A			2416
263	CTCTCTGTCC ATCACTTCCC C			2466
264	ATGTGTCTCT CTTCCTATCT A			2516
265	CCATCACCTC TCTCCTCCCT T	CCCTTTCCT CTCTCTTCCA	TTTTCTTCCA	2566

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266	CCTGCTTCTT TACCCTGCCT CTCCCATTGC CCTCTTACCT TTATGCCCAT	2616
267	TCCATGTCCC CTCTCAATTC CCTGTCCCAT TGTGCTCCCT CACATCTTCC	2666
268	ATTTCCCTCT TTCTCCCTTA GCCTCTTCTT CCTCTTCTCT TGTATCTCCC	2716
269	TTCCCTTTGC TTCTCCCTCC TCCTTTCCCC TTCCCCTATG CCCTCTACTC	2766
270	TACTTGATCT TCTCTCCTCT CCACATACCC TTTTTCCTTT CCACCCTGCC	2816
271	CTTTGTCCCC AGACCCTACA GTATCCTGTG CACAGGAAGT GGGAGGTGCC	2866
272	ATCAACAACA AGGAGGCAAG AAACAGAGCA AAATCCCAAA ATCAGCAGGA	2916
273	AAGGCTGGAT GAAAATAAGG CCAGGTTCTG AGGACAGCTG GAATCTAGCC	2966
274	AAGTGGCTCC TATAACCCTA AGTACCAAGG GAGAAAGTGA TGGTGAAGTT	3016
275	CTTGATCCTT GCTGCTTCTT TTACATATGT TGGCACATCT TTCTCAAATG	3066
276	CAGGCCATGC TCCATGCTTG GCGCTTGCTC AGCGTGGTTA AGTAATGGGA	3116
277	GAATCTGAAA ACTAGGGGCC AGTGGTTTGT TTTGGGGACA AATTAGCACG	3166
278	TAGTGATATT TCCCCCTAAA AATTATAACA AACAGATTCA TGATTTGAGA	3216
279	TCCTTCTACA GGTGAGAAGT GGAAAAATTG TCACTATGAA GTTCTTTTTA	3266
280	GGCTAAAGAT ACTTGGAACC ATAGAAGCGT TGTTAAAATA CTGCTTTCTT	3316
281	TTGCTAAAAT ATTCTTTCTC ACATATTCAT ATTCTCCAG	3355
282	GT GTT CCT GGC CAT CAT TTA AGG AAG AAT GAA GTG AAG TGT	3396
283	AGG ATG ATT TAT TTC TTC CAC GAC CCT AAT TTC CTG GTG TCT	3438
284	ATA CCA GTG AAC CCT AAG GAA CAA ATG GAG TGT AGG TGT GAA	3480
285	AAT GCT GAT GAA GAG GTT GCA ATG GAA GAG GAA GAA GAA	3522
286	GAG GAG GAG GAG GAA GAG GAA ATG GGA AAC CCG GAT GGC	3564
287	TTC TCA CCT TAG	3576
288	GCATGCAGGT ACTGGCTTCA CTAACCAACC ATTCCTAACA TATGCCTGTA	3626
289	GCTAAGAGCA TCTTTTTAAA AAATATTATT GGTAAACTAA ACAATTGTTA	3676
290	TCTTTTTACA TTAATAAGTA TTAAATTAAT CCAGTATACA GTTTTAAGAA	3726
291	CCCTAAGTTA AACAGAAGTC AATGATGTCT AGATGCCTGT TCTTTAGATT	3776
292	GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT CGGGAGTAGA	3826
293	GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TCGCATATTG	3876
293	TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA AAATAAGTGT	
295	TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TATTTTGTCG	3926
		3976
296	TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGAG ATGAAAATCT	4026
297	CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAGT TTTTTTCACT	4076
298	TAGAATTCAA TTCAAATTCT TAATTCAATC TTAATTTTTA GATTTCTTAA	4126
299	AATGTTTTTT AAAAAAAATG CAAATCTCAT TTTTAAGAGA TGAAAGCAGA	4176
300	GTAACTGGGG GGCTTAGGGA ATCTGTAGGG TTGCGGTATA GCAATAGGGA	4226
301	GTTCTGGTCT CTGAGAAGCA GTCAGAGAGA ATGGAAAACC AGGCCCTTGC	4276
302	CAGTAGGTTA GTGAGGTTGA TATGATCAGA TTATGGACAC TCTCCAAATC	4326
303	ATAAATACTC TAACAGCTAA GGATCTCTGA GGGAAACACA ACAGGGAAAT	4376
304	ATTTTAGTTT CTCCTTGAGA AACAATGACA AGACATAAAA TTGGCAAGAA	4426
305	AGTCAGGAGT GTATTCTAAT AAGTGTTGCT TATCTCTTAT TTTCTTCTAC	4476
306	AGTTGCAAAG CCCAGAAGAA AGAAATGGAC AGCGGAAGAA GTGGTTGTTT	4526
307	TTTTTTCCCC TTCATTAATT TTCTAGTTTT TAGTAATCCA GAAAATTTGA	4576
308	TTTTGTTCTA AAGTTCATTA TGCAAAGATG TCACCAACAG ACTTCTGACT	4626
309	GCATGGTGAA CTTTCATATG ATACATAGGA TTACACTTGT ACCTGTTAAA	4676
310	AATAAAAGTT TGACTTGCAT AC	4698
311		
212		

312 313

314

315

316

317

- (2) INFORMATION FOR SEQUENCE ID NO: 6:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- 318 (ii) MOLECULE TYPE: protein

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319
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
320
321
322
323
324
    Leu Pro Tyr Leu Gly Trp Leu
325
326
327
328
329
330
331
332
333
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334
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335
               (A) LENGTH: 2418 base pairs
336
               (B) TYPE:
                           nucleic acid
337
               (D) TOPOLOGY:
                              linear
338
          (ii) MOLECULE TYPE: genomic DNA
339
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
340
341
342
343
344
     GGATCCAGGC CCTGCCAGGA AAAATATAAG GGCCCTGCGT GAGAACAGAG
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345
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                                                                    100
     TCCTGGTAGC ACTGAGAAGC CAGGGCTGTG CTTGCGGTCT GCACCCTGAG
346
                                                                    150
347
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                                                                   200
348
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                                                                    250
349
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                                                                    300
350
     CAGGACACAT AGGACTCCAC AGAGTCTGGC CTCACCTCCC TACTGTCAGT
                                                                    350
351
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                                                                    400
352
     TTCCTCCTTC AGGTTTTCAG GGGACAGGCC AACCCAGAGG ACAGGATTCC
                                                                    450
353
     CTGGAGGCCA CAGAGGAGCA CCAAGGAGAA GATCTGTAAG TAGGCCTTTG
                                                                    500
354
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                                                                   550
355
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                                                                    600
356
     GCCTGCTGCC CTGACGAGAG TCATCATGTC TCTTGAGCAG AGGAGTCTGC
                                                                    650
357
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                                                                   700
358
     GTGTGTGCC AGGCTGCCAC CTCCTCCT TCTCCTCTGG TCCTGGGCAC
                                                                    750
359
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361
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362
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                                                                   950
363
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364
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365
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366
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367
     GGTCTCTCCT ATGATGGCCT GCTGGGTGAT AATCAGATCA TGCCCAAGAC
                                                                  1200
368
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369
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                                                                  1350
371
     TTTGGTGCAG GAAAAGTACC TGGAGTACGG CAGGTGCCGG ACAGTGATCC
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372	CGCACGCTAT GAGTTCCTGT GGGGTCCAAG GGCCCTCGCT GAAACCAGCT	1450
373	ATGTGAAAGT CCTTGAGTAT GTGATCAAGG TCAGTGCAAG AGTTCGCTTT	1500
374	TTCTTCCCAT CCCTGCGTGA AGCAGCTTTG AGAGAGGAGG AAGAGGGAGT	1550
375	CTGAGCATGA GTTGCAGCCA AGGCCAGTGG GAGGGGGACT GGGCCAGTGC	1600
376	ACCTTCCAGG GCCGCGTCCA GCAGCTTCCC CTGCCTCGTG TGACATGAGG	1650
377	CCCATTCTTC ACTCTGAAGA GAGCGGTCAG TGTTCTCAGT AGTAGGTTTC	1700
378	TGTTCTATTG GGTGACTTGG AGATTTATCT TTGTTCTCTT TTGGAATTGT	1750
379	TCAAATGTTT TTTTTTAAGG GATGGTTGAA TGAACTTCAG CATCCAAGTT	1800
380	TATGAATGAC AGCAGTCACA CAGTTCTGTG TATATAGTTT AAGGGTAAGA	1850
381	GTCTTGTGTT TTATTCAGAT TGGGAAATCC ATTCTATTTT GTGAATTGGG	1900
382	ATAATAACAG CAGTGGAATA AGTACTTAGA AATGTGAAAA ATGAGCAGTA	1950
383	AAATAGATGA GATAAAGAAC TAAAGAAATT AAGAGATAGT CAATTCTTGC	2000
384	CTTATACCTC AGTCTATTCT GTAAAATTTT TAAAGATATA TGCATACCTG	2050
385	GATTTCCTTG GCTTCTTTGA GAATGTAAGA GAAATTAAAT CTGAATAAAG	2100
386	AATTCTTCCT GTTCACTGGC TCTTTTCTTC TCCATGCACT GAGCATCTGC	2150
387	TTTTTGGAAG GCCCTGGGTT AGTAGTGGAG ATGCTAAGGT AAGCCAGACT	2200
388	CATACCCACC CATAGGGTCG TAGAGTCTAG GAGCTGCAGT CACGTAATCG	2250
389	AGGTGGCAAG ATGTCCTCTA AAGATGTAGG GAAAAGTGAG AGAGGGGTGA	2300
390	GGGTGTGGGG CTCCGGGTGA GAGTGGTGGA GTGTCAATGC CCTGAGCTGG	2350
391	GGCATTTTGG GCTTTGGGAA ACTGCAGTTC CTTCTGGGGG AGCTGATTGT	2400
392	AATGATCTTG GGTGGATCC	(2418) 2419 are 15 ted
393	9	27/1 802 13.468
394	(2) INFORMATION FOR SEQUENCE ID NO: 8:	
395	(i) SEQUENCE CHARACTERISTICS:	
396	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 5724 base pairs (B) TYPE: nucleic acid (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA (iv) FEATURE:	ter detected a
397	(B) TYPE: nucleic acid	T.
398	(D) TOPOLOGY: linear	4. Heave recourt
399	(ii) MOLECULE TYPE: genomic DNA - the bosse	pairs.
400	(ix) FEATURE:	•
401	(A) NAME/KEY: MAGE-1 gene	
402	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:	
403		
404		
405		
406	CCCGGGGCAC CACTGGCATC CCTCCCCTA CCACCCCCAA TCCCTCCCTT	50
407	TACGCCACCC ATCCAAACAT CTTCACGCTC ACCCCCAGCC CAAGCCAGGC	100
408	AGAATCCGGT TCCACCCTG CTCTCAACCC AGGGAAGCCC AGGTGCCCAG	150
409	ATGTGACGCC ACTGACTTGA GCATTAGTGG TTAGAGAGAA GCGAGGTTTT	200
410	CGGTCTGAGG GGCGGCTTGA GATCGGTGGA GGGAAGCGGG CCCAGCTCTG	250
411	TAAGGAGGCA AGGTGACATG CTGAGGGAGG ACTGAGGACC CACTTACCCC	300
412	AGATAGAGGA CCCCAAATAA TCCCTTCATG CCAGTCCTGG ACCATCTGGT	350
413	GGTGGACTTC TCAGGCTGGG CCACCCCCAG CCCCCTTGCT GCTTAAACCA	400
414	CTGGGGACTC GAAGTCAGAG CTCCGTGTGA TCAGGGAAGG GCTGCTTAGG	450
415	AGAGGGCAGC GTCCAGGCTC TGCCAGACAT CATGCTCAGG ATTCTCAAGG	500
416	AGGGCTGAGG GTCCCTAAGA CCCCACTCCC GTGACCCAAC CCCCACTCCA	550
417	ATGCTCACTC CCGTGACCCA ACCCCCTCTT CATTGTCATT CCAACCCCCA	600
418	CCCCACATCC CCCACCCCAT CCCTCAACCC TGATGCCCAT CCGCCCAGCC	650
419		030
717	ATTCCACCCT CACCCCCACC CCCACCCCCA CGCCCACTCC CACCCCCACC	700
420	CAGGCAGGAT CCGGTTCCCG CCAGGAAACA TCCGGGTGCC CGGATGTGAC	
420		700
420 421	CAGGCAGGAT CCGGTTCCCG CCAGGAAACA TCCGGGTGCC CGGATGTGAC	700 750

423 AGGCAAGGTG AGAGGCTGAG GGAGGACTGA GGACCCCGCC ACTCCAAATA

424 GAGAGCCCCA AATATTCCAG CCCCGCCCTT GCTGCCAGCC CTGGCCCACC

Raw Sequence Listing

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425	CGCGGGAAGA	CGTCTCAGCC	TGGGCTGCCC	CCAGACCCCT	GCTCCAAAAG	1000
426	CCTTGAGAGA	CACCAGGTTC	TTCTCCCCAA	GCTCTGGAAT	CAGAGGTTGC	1050
427	TGTGACCAGG	GCAGGACTGG	TTAGGAGAGG	GCAGGGCACA	GGCTCTGCCA	1100
428	GGCATCAAGA	TCAGCACCCA	AGAGGGAGGG	CTGTGGGCCC	CCAAGACTGC	1150
429	ACTCCAATCC	CCACTCCCAC	CCCATTCGCA	TTCCCATTCC	CCACCCAACC	1200
430	CCCATCTCCT	CAGCTACACC	TCCACCCCA	TCCCTACTCC	TACTCCGTCA	1250
431		ACCCTCCAGC				1300
432	TCACCCTCAC	TGCCCCCAAC	CCCACCCTCA	TCTCTCTCAT	GTGCCCCACT	1350
433	CCCATCGCCT	CCCCCATTCT	GGCAGAATCC	GGTTTGCCCC	TGCTCTCAAC	1400
434		CCTGGTAGGC				1450
435					GCGGCTTGAG	1500
436					AGGTGAGATG	
437					CCCCAAAATG	
438		ACCCCTGCTG				1650
439		GACCACCCC				1700
440					GGTCAGGAGA	1750
441					TAGGGTCAGG	1800
442		GGAACTGAGG				1850
443					CCCAACCTCA	1900
444					GAATGGCGGC	
445					GAGGGAAGGG	
446					TGCGAGATGA	
447	GGGAGGCCTC	AGAGGACCCA	GCACCCTAGG	ACACCGCACC	CCTGTCTGAG	2100
448					GGGACTCAGA	
449					AGGAAGAGGA	
450					CCTCGGCCCT	
451					CCTGCATCTT	
452	TGAGGTGACA	GGACAGAGCT	GTGGTCTGAG	AAGTGGGGCC	TCAGGTCAAC	2350
453	AGAGGGAGGA	GTTCCAGGAT	CCATATGGCC	CAAGATGTGC	CCCCTTCATG	2400
454	AGGACTGGGG	ATATCCCCGG	CTCAGAAAGA	AGGGACTCCA	CACAGTCTGG	2450
455	CTGTCCCCTT	TTAGTAGCTC	TAGGGGGACC	AGATCAGGGA	TGGCGGTATG	2500
456	TTCCATTCTC	ACTTGTACCA	CAGGCAGGAA	GTTGGGGGGC	CCTCAGGGAG	2550
457	ATGGGGTCTT	GGGGTAAAGG	GGGGATGTCT	ACTCATGTCA	GGGAATTGGG	2600
458	GGTTGAGGAA	GCACAGGCGC	TGGCAGGAAT	AAAGATGAGT	GAGACAGACA	2650
459	AGGCTATTGG	AATCCACACC	CCAGAACCAA	AGGGGTCAGC	CCTGGACACC	2700
460	TCACCCAGGA	TGTGGCTTCT	TTTTCACTCC	TGTTTCCAGA	TCTGGGGCAG	2750
461	GTGAGGACCT	CATTCTCAGA	GGGTGACTCA	GGTCAACGTA	GGGACCCCCA	2800
462	TCTGGTCTAA	AGACAGAGCG	GTCCCAGGAT	CTGCCATGCG	TTCGGGTGAG	2850
463	GAACATGAGG	GAGGACTGAG	GGTACCCCAG	GACCAGAACA	CTGAGGGAGA	2900
464	CTGCACAGAA	ATCAGCCCTG	CCCCTGCTGT	CACCCCAGAG	AGCATGGGCT	2950
465	GGGCCGTCTG	CCGAGGTCCT	TCCGTTATCC	TGGGATCATT	GATGTCAGGG	3000
466	ACGGGGAGGC	CTTGGTCTGA	GAAGGCTGCG	CTCAGGTCAG	TAGAGGGAGC	3050
467	GTCCCAGGCC	CTGCCAGGAG	TCAAGGTGAG	GACCAAGCGG	GCACCTCACC	3150
468	CAGGACACAT	TAATTCCAAT	GAATTTTGAT	ATCTCTTGCT	GCCCTTCCCC	. 3200
469		GCACGTGTGG				3250
470					ACCAGCAAAA	3300
471		CAGGCCCTGC				3350
472		CATCCACTGC				3400
473		GTAGCACTGA				3450
474		GTGGATTCCT				3500
475		TGAGACAGTA				3550
476		CAGTGAATGT				3600
477	TGCCACAGGA	CACATAGGAC	TCCACAGAGT	CTGGCCTCAC	CTCCCTACTG	3650

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478	TCAGTCCTGT AGAATCGACC TCTGCTGGCC GGCTGTACCC TGAGTACCCT	3700
479	CTCACTTCCT CCTTCAGGTT TTCAGGGGAC AGGCCAACCC AGAGGACAGG	3750
480	ATTCCCTGGA GGCCACAGAG GAGCACCAAG GAGAAGATCT GTAAGTAGGC	3800
481	CTTTGTTAGA GTCTCCAAGG TTCAGTTCTC AGCTGAGGCC TCTCACACAC	3850
482	TCCCTCTCTC CCCAGGCCTG TGGGTCTTCA TTGCCCAGCT CCTGCCCACA	3900
483	CTCCTGCCTG CTGCCCTGAC GAGAGTCATC	3930
484	ATG TCT CTT GAG CAG AGG AGT CTG CAC TGC AAG CCT GAG GAA	3972
485	GCC CTT GAG GCC CAA CAA GAG GCC CTG GGC CTG GTG TGT GTG	4014
486	CAG GCT GCC ACC TCC TCC TCT CCT CTG GTC CTG GGC ACC	4056
487	CTG GAG GAG GTG CCC ACT GCT GGG TCA ACA GAT CCT CCC CAG	4098
488	AGT CCT CAG GGA GCC TCC GCC TTT CCC ACT ACC ATC AAC TTC	4140
489	ACT CGA CAG AGG CAA CCC AGT GAG GGT TCC AGC AGC CGT GAA	4140
490	GAG GAG GGG CCA AGC ACC TCT TGT ATC CTG GAG TCC TTG TTC	4224
491	CGA GCA GTA ATC ACT AAG AAG GTG GCT GAT TTG GTT GGT TTT	
492	CTG CTC CTC AAA TAT CGA GCC AGG GAG CCA GTC ACA AAG GCA	4266
493		4308
	GAA ATG CTG GAG AGT GTC ATC AAA AAT TAC AAG CAC TGT TTT	4350
494	CCT GAG ATC TTC GGC AAA GCC TCT GAG TCC TTG CAG CTG GTC	4392
495	TTT GGC ATT GAC GTG AAG GAA GCA GAC CCC ACC GGC CAC TCC	4434
496	TAT GTC CTT GTC ACC TGC CTA GGT CTC TCC TAT GAT GGC CTG	4476
497	CTG GGT GAT AAT CAG ATC ATG CCC AAG ACA GGC TTC CTG ATA	4518
498	ATT GTC CTG GTC ATG ATT GCA ATG GAG GGC GGC CAT GCT CCT	4560
499	GAG GAG GAA ATC TGG GAG GAG CTG AGT GTG ATG GAG GTG TAT	4602
500	GAT GGG AGG CAC AGT GCC TAT GGG GAG CCC AGG AAG CTG	4644
501	CTC ACC CAA GAT TTG GTG CAG GAA AAG TAC CTG GAG TAC GGC	4686
502	AGG TGC CGG ACA GTG ATC CCG CAC GCT ATG AGT TCC TGT GGG	4728
503	GTC CAA GGG CCC TCG CTG AAA CCA GCT ATG TGA	4761
504	AAGTCCTTGA GTATGTGATC AAGGTCAGTG CAAGAGTTC	4800
505	GCTTTTTCTT CCCATCCCTG CGTGAAGCAG CTTTGAGAGA GGAGGAAGAG	4850
506	GGAGTCTGAG CATGAGTTGC AGCCAAGGCC AGTGGGAGGG GGACTGGGCC	4900
507	AGTGCACCTT CCAGGGCCGC GTCCAGCAGC TTCCCCTGCC TCGTGTGACA	4950
508	TGAGGCCCAT TCTTCACTCT GAAGAGAGCG GTCAGTGTTC TCAGTAGTAG	5000
509	GTTTCTGTTC TATTGGGTGA CTTGGAGATT TATCTTTGTT CTCTTTTGGA	5050
510	ATTGTTCAAA TGTTTTTTT TAAGGGATGG TTGAATGAAC TTCAGCATCC	5100
511	AAGTTTATGA ATGACAGCAG TCACACAGTT CTGTGTATAT AGTTTAAGGG	5150
512	TAAGAGTCTT GTGTTTTATT CAGATTGGGA AATCCATTCT ATTTTGTGAA	5200
513	TTGGGATAAT AACAGCAGTG GAATAAGTAC TTAGAAATGT GAAAAATGAG	5250
514	CAGTAAAATA GATGAGATAA AGAACTAAAG AAATTAAGAG ATAGTCAATT	5300
515	CTTGCCTTAT ACCTCAGTCT ATTCTGTAAA ATTTTTAAAG ATATATGCAT	5350
516	ACCTGGATTT CCTTGGCTTC TTTGAGAATG TAAGAGAAAT TAAATCTGAA	5400
517	TAAAGAATTC TTCCTGTTCA CTGGCTCTTT TCTTCTCCAT GCACTGAGCA	5450
518	TCTGCTTTTT GGAAGGCCCT GGGTTAGTAG TGGAGATGCT AAGGTAAGCC	5500
519	AGACTCATAC CCACCCATAG GGTCGTAGAG TCTAGGAGCT GCAGTCACGT	5550
520	AATCGAGGTG GCAAGATGTC CTCTAAAGAT GTAGGGAAAA GTGAGAGAGG	5600
521	GGTGAGGGTG TGGGGCTCCG GGTGAGAGTG GTGGAGTGTC AATGCCCTGA	5650
522	GCTGGGGCAT TTTGGGCTTT GGGAAACTGC AGTTCCTTCT GGGGGAGCTG	5700
523	ATTGTAATGA TCTTGGGTGG ATCC	5724
524		0.24
505		

525 526 527

528

529

530

(2) INFORMATION FOR SEQUENCE ID NO: 9:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 4157 base pairs

Raw Sequence Listing

07/18/92 11:54:46

531		(B) TYPE:	nucleic aci	ld		
532		(D) TOPOLOGY				
533	• •	MOLECULE TYPE	PE: genomic	DNA		
534	, ,	FEATURE:				
535		(A) NAME/KE				
536	(xi) 5	SEQUENCE DES	SCRIPTION:	SEQ ID NO:	9:	
537						
538						
539						
540					TTGCCGTGAA	
541 542					GCACATTGGA	
543					GACGTCGGCG ACGCCGAGGG	
544					TTAATCCAGC	
545					GACTTCTCAG	
545 546					TTAACCGCAG	
547					TGGTTAGAAG	
548					CCCAAGAGGG	
549					ATCCCCCAAC	
550					CAAACCCCAT	
551					TTTGCCCCTG	
552					GCGGATCCTG	
553					TCGTGAGTAT	
554					GACAGTGGAG	
555					TACCCCTGTC	
556					GGGATGCAGA	
557					GGGGAGGAAG	
558					GCAACCTTGG	
559					CTCATTGCAC	
560					TGGGACTTCA	
561					GGTGTGCCCC	
562					GATGCCACAG	
563					TCAGGGATGG	
564					GGGGAACCCT	
565					CATTTCAGGG	
566					GATGAGTAAC	
567	CCACAGGAGG	CCATCATAAC	GTTCACCCTA	GAACCAAAGG	GGTCAGCCCT	1400
568					CTTGTCTTTC	
569	CAGATCTCAG	GGAGTTGATG	ACCTTGTTTT	CAGAAGGTGA	CTCAGTCAAC	1500
570					TCTGCCAAGC	
571	ATCCAGGTGG	AGAGCCTGAG	GTAGGATTGA	GGGTACCCCT	GGGCCAGAAT	1600
572	GCAGCAAGGG	GGCCCCATAG	AAATCTGCCC	TGCCCCTGCG	GTTACTTCAG	1650
573	AGACCCTGGG	CAGGGCTGTC	AGCTGAAGTC	CCTCCATTAT	CTGGGATCTT	1700
574	TGATGTCAGG	GAAGGGGAGG	CCTTGGTCTG	AAGGGGCTGG	AGTCAGGTCA	1750
575		GGTCTCAGGC				1800
576		CCAGGACACC				1850
577		GAGGACCTGG				1900
578		TACCATATCA				1950
579		AAAGGGTGGG				2000
580		CACAGAGGGG				2050
581		CCAACCCTGC				2100
582		CACTGAAGGC				2150
583	TCCAGGAACC	AGGCAGTGAG	GCCTTGGTCT	GAGTCAGTGC	CTCAGGTCAC	2200

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Patent Application US/07/807,043

584	AGAGCAGAGG GGACGCAGAC AGTGCCAACA CTGAAGGTTT GCCTTGGAATG	2250
585	AGAGCAGAG GGACGCAGAC AGTGCCAACA CTGAAGGTTT GCCTGGAATG CACACCAAGG GCCCCACCCG CCCAGAACAA ATGGGACTCC AGAGGGCCTG	2300
586	GCCTCACCCT CCCTATTCTC AGTCCTGCAG CCTGAGCATG TGCTGGCCGG	2350
587	CTCTACCCTC ACCTCCCCTC CCACTTCCTC CTTCACCTTC TCACCCCAC	2400
588	CTGTACCCTG AGGTGCCCTC CCACTTCCTC CTTCAGGTTC TGAGGGGGAC AGGCTGACAA GTAGGACCCG AGGCACTGGA GGAGCATTGA AGGAGAAGAT	2450
589	CMCMARCMAR CCCMMMCMCA CACCCMCCAR CCMMCACMMC ACMMCMCACC	2500
590	TARGETTER CAPACECTER THEOTERCE AGECTTETE AGEST ATTENTED TO	2550
591	CCCAGCTCCT GCCCGCACTC CTGCCTGCTG CCCTGACCAG AGTCATC	2597
592	TAAGGCCTCA CACACGCTCC TTCTCTCCCC AGGCCTGTGG GTCTTCATTG CCCAGCTCCT GCCCGCACTC CTGCCTGCTG CCCTGACCAG AGTCATC ATG CCT CTT GAG CAG AGG AGT CAG CAC TGC AAG CCT GAA GAA	2639
593	GGC CTT GAG GCC CGA GGA GAG GCC CTG GGC CTG GTG GGT GCG	2681
594	GGC CTT GAG GCC CGA GGA GAG GCC CTG GGC CTG GGT GCG CAG GCT CCT GCT ACT GAG GAG CAG ACC GCT TCT TCC TCT	2723
595	TOT ACT CTA GTG GAA GTT ACC CTG GGG GAG GTG CCT GCT GCC	2765
596	TCT ACT CTA GTG GAA GTT ACC CTG GGG GAG GTG CCT GCC GAC TCA CCG AGT CCT CCC CAC AGT CCT CAG GGA GCC TCC AGC TTC TCG ACT ACC ATC AAC TAC ACT CTT TGG AGA CAA TCC GAT	2807
597	THE TEG ACT ACE AND THE ACT CHT THE ACA CAN THE CAM	2849
598	CAG CCC TCC ACC AAC CAA CAA CAC CCC CCA ACA A	2891
599	CCC CAC CTC CAC TCC CAC TTC CAA CCA CCA	2933
600	ATC CTT CAC TTC CTT CAT TTT CTC CTC ATC TAT CCA CCC	2975
601	ACC CAC CCC CTC ACA AAC CCA CAA ATC CTC C	3017
602	AGA AAT TOO CAG CAC TOO TOT COO CTG ATC TOO AGC AAA CCC	3059
603	TOO GAG TAO TTG CAG CTG CTC TTT GGC ATC GAG CTG CTG GAA	3101
604	GTG GTC CCC ATC AGC CAC TTG TAC ATC CTT GTC ACC TCC CTG	3143
605	GGC CTC TCC TAC GAT GGC CTG CTG GGC GAC AAT CAG GTC ATG	3185
606	CCC ARG ACA CCC CTC CTC ATA ATC CTC CTC CCC ATA ATC CCA	3227
607	ATA GAG GGC GAC TGT GCC CCT GAG GAG AAA ATC TGG GAG GAG	3269
608	TTC TCG ACT ACC ATC AAC TAC ACT CTT TGG AGA CAA TCC GAT GAG GGC TCC AGC AAC CAA GAA GAG GAG GGG CCA AGA ATG TTT CCC GAC CTG GAG TCC GAG TTC CAA GCA GCA ATC AGT AGG AAG ATG GTT GAG TTG GTT CAT TTT CTG CTC CTC AAG TAT CGA GCC AGG GAG GCC GTC ACA AAG GCA GAA ATG CTG GAG AGT GTC CTC AGG AAT TGC CAG GAC TTC TTT CCC GTG ATC TTC AGC AAA GCC TCC GAG TAC TTG CAG GTC TTT CCC GTG ATC TTC AGC AAA GCC TCC GAG TAC TTG CAG CTG GTC TTT GGC ATC GAG GTG GTG GAA GTG GTC CCC ATC AGC CAC TTG TAC ATC CTT GTC ACC TGC CTG GGC CTC TCC TAC GAT GGC CTG CTG GGC GAC AAT CAG GTC ATG CCC AAG ACA GGC CTC CTG ATA ATC GTC CTG GCC ATA ATC GCA ATA GAG GGC GAC AAT TG GCA CTG AGT ATG TTG GAG GAG GAG AAA ATC TGG GAG GAG GAG GAG GAC AGT GTC TTC GCA CAT CCC AGG AAG CTG CTC ATG CAA GAT CTG GTC CAG GAA AAC TAC CTG GAG GAG GAC AGT GTC TTC GCA CAT CCC AGG AAG CTG CTC ATG CAA GAT CTG GTC CAG GAA AAC TAC CTG GAG TAC CCT GAG GAG GAC AGT GTC CTG GCA TAC TAC CTG GAG TAC CCT GAG GAG CCC CTC ATT GAA ACC TAC TAC GAG TTC CTG TGG GGT CCA AGG GCC CTC ATT GAA ACC AGC TAC TAC CTG GAG TAC CTG CTG CAC AGG GCC CTC ATT GAA ACC AGC TAT GTG AAA GTC CTG CTG CAC CAT ACA CTA AAG ATC GGT	3311
609	TTC GCA CAT CCC AGG AAG CTG CTC ATG CAA GAT CTG CTG CAG	3353
610	CAA AAC TAC CTG GAG TAC CCG CAG GTG CCC GGC AGT GAT CCT	3395
611	GCA TGC TAC GAG TTC CTG TGG GGT CCA AGG GCC CTC ATT GAA	3437
612	ACC ACC TAT GTG AAA GTC CTG CAC CAT ACA CTA AAG ATC GGT	3479
613	ACC AGC TAT GTG AAA GTC CTG CAC CAT ACA CTA AAG ATC GGT GGA GAA CCT CAC ATT TCC TAC CCA CCC CTG CAT GAA CGG GCT	3521
614	TTG AGA GAG GGA GAA GAG TGA	3542
615		
616	GTCTCAGCAC ATGTTGCAGC CAGGGCCAGT GGGAGGGGGT CTGGGCCAGT GCACCTTCCA GGGCCCCATC CATTAGCTTC CACTGCCTCG TGTGATATGA	3642
617	GGCCCATTCC TGCCTCTTTG AAGAGAGCAG TCAGCATTCT TAGCAGTGAG	3692
618	TTTCTCTCTTCT CTTCCATCAC TTTCACATCATT ATCTTTCTT	3742
619	TTTCTGTTCT GTTGGATGAC TTTGAGATTT ATCTTTCTTT CCTGTTGGAA TTGTTCAAAT GTTCCTTTTA ACAAATGGTT GGATGAACTT CAGCATCCAA	3792
620	GTTTATGAAT GACAGTAGTC ACACATAGTG CTGTTTATAT AGTTTAGGGG	3842
621	TARGAGTECT GTTTTTTATT CAGATTGGGA AATCCATTCC ATTTTTTTGAG	3892
622	TAAGAGTCCT GTTTTTTATT CAGATTGGGA AATCCATTCC ATTTTGTGAG TTGTCACATA ATAACAGCAG TGGAATATGT ATTTGCCTAT ATTGTGAACG	3942
623	AATTAGCAGT AAAATACATG ATACAAGGAA CTCAAAAGAT AGTTAATTCT	3992
624	TGCCTTATAC CTCAGTCTAT TATGTAAAAT TAAAAATATG TGTATGTTTT	4042
625	TGCTTCTTTG AGAATGCAAA AGAAATTAAA TCTGAATAAA TTCTTCCTGT	
626	TCACTGGCTC ATTTCTTTAC CATTCACTCA GCATCTGCTC TGTGGAAGGC	4142
627	CCTGGTAGTA GTGGG	4142
628	COLOGINAIN GIGGG	413/
626		

629 630

631 632 633

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635

(2) INFORMATION FOR SEQUENCE ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 662 base pairs

636 (B) TYPE: nucleic acid

Raw Sequence Listing

07/18/92 11:55:00

637	(D) TOPOLOGY: linear	
638	(ii) MOLECULE TYPE: genomic DNA	
639	(ix) FEATURE:	
640	(A) NAME/KEY: MAGE-21 gene	
641	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:	
642	(,	
643		
644		
645	GGATCCCCAT GGATCCAGGA AGAATCCAGT TCCACCCCTG CTGTGAACCC	50
646	AGGGAAGTCA CGGGGCCGGA TGTGACGCCA CTGACTTGCG CGTTGGAGGT	100
647	CAGAGAACAG CGAGATTCTC GCCCTGAGCA ACGGCCTGAC GTCGGCGGAG	150
648	GGAAGCAGGC GCAGGCTCCG TGAGGAGGCA AGGTAAGATG CCGAGGGAGG	200
649	ACTGAGGCGG GCCTCACCCC AGACAGAGGG CCCCCAATAA TCCAGCGCTG	250
650	CCTCTGCTGC CAGGCCTGGA CCACCCTGCA GGGGAAGACT TCTCAGGCTC	300
651	AGTCGCCACC ACCTCACCCC GCCACCCCC GCCGCTTTAA CCGCAGGGAA	350
652	CTCTGGTGTA AGAGCTTTGT GTGACCAGGG CAGGGCTGGT TAGAAGTGCT	400
653	CAGGGCCCAG ACTCAGCCAG GAATCAAGGT CAGGACCCCA AGAGGGGACT	450
654	GAGGGTAACC CCCCGCACC CCCACCACA TTCCCATCCC CCAACACCAA	500
655	CCCCACCCC ATCCCCCAAC ACCAAACCCA CCACCATCGC TCAAACATCA	550
656	ACGGCACCCC CAAACCCCGA TTCCCATCCC CACCCATCCT GGCAGAATCG	600
657	GAGCTTTGCC CCTGCAATCA ACCCACGGAA GCTCCGGGAA TGGCGGCCAA	650
658	GCACGCGGAT CC	662
659		002
660		
661		
662		
663		
664		
665		
666		
667		
668	(2) INFORMATION FOR SEQUENCE ID NO: 11:	
669	(i) SEQUENCE CHARACTERISTICS:	
670	(A) LENGTH: 1640 base pairs	
671	(B) TYPE: nucleic acid	
672	(D) TOPOLOGY: linear	
673	(ii) MOLECULE TYPE: cDNA to mRNA	
674	(ix) FEATURE:	
675	(A) NAME/KEY: cDNA MAGE-3	
676	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:	
677	(XI) DEGOENCE DEBONITION. DEG ID NO. 11.	
678		
679		
680	GCCGCGAGGG AAGCCGGCCC AGGCTCGGTG AGGAGGCAAG GTTCTGAGGG	50
681		100
682		150
683		171
684		213
685	GGC CTT GAG GCC CGA GGA GAG GCC CTG GGC CTG GTG GGT GCG	255
686		297
687		339
688		381
689	CTC CCC ACT ACC ATG AAC TAC CCT CTC TGG AGC CAA TCC TAT	423
	i.u i.i.u i.i.u ooi olo iuu noo onn ioo ini	723

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450

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690	GAG GAC TCC AGC AAC CAA GAA GAG GAG GGG CCA AGC ACC TTC	465
691	CCT GAC CTG GAG TCC GAG TTC CAA GCA GCA CTC AGT AGG AAG	507
692	GTG GCC GAG TTG GTT CAT TTT CTG CTC CTC AAG TAT CGA GCC	549
693	AGG GAG CCG GTC ACA AAG GCA GAA ATG CTG GGG AGT GTC GTC	
694	GGA AAT TGG CAG TAT TTC TTT CCT GTG ATC TTC AGC AAA GCT	
695	TCC AGT TCC TTG CAG CTG GTC TTT GGC ATC GAG CTG ATG GAA	675
696	GTG GAC CCC ATC GGC CAC TTG TAC ATC TTT GCC ACC TGC CTG	717
697	GGC CTC TCC TAC GAT GGC CTG CTG GGT GAC AAT CAG ATC ATG	759
698	CCC AAG GCA GGC CTC CTG ATA ATC GTC CTG GCC ATA ATC GCA	801
699	AGA GAG GGC GAC TGT GCC CCT GAG GAG AAA ATC TGG GAG GAG	843
700	CTG AGT GTG TTA GAG GTG TTT GAG GGG AGG GAA GAC AGT ATG	885
701	TTG GGG GAT CCC AAG AAG CTG CTC ACC CAA CAT TTC GTG CAG	927
702	GAA AAC TAC CTG GAG TAC CGG CAG GTC CCC GGC AGT GAT CCT	969
703	GCA TGT TAT GAA TTC CTG TGG GGT CCA AGG GCC CTC GTT GAA	1011
704	ACC AGC TAT GTG AAA GTC CTG CAC CAT ATG GTA AAG ATC AGT	
705	GGA GGA CCT CAC ATT TCC TAC CCA CCC CTG CAT GAG TGG GTT	1095
706	TTG AGA GAG GGG GAA GAG TGA	1116
707	GTCTGAGCAC GAGTTGCAGC CAGGGCCAGT GGGAGGGGGT CTGGGCCAGT	1166
708	GCACCTTCCG GGGCCGCATC CCTTAGTTTC CACTGCCTCC TGTGACGTGA	1216
709	GGCCCATTCT TCACTCTTTG AAGCGAGCAG TCAGCATTCT TAGTAGTGGG	1266
710	TTTCTGTTCT GTTGGATGAC TTTGAGATTA TTCTTTGTTT CCTGTTGGAG	1316
711	TTGTTCAAAT GTTCCTTTTA ACGGATGGTT GAATGAGCGT CAGCATCCAG	1366
712	GTTTATGAAT GACAGTAGTC ACACATAGTG CTGTTTATAT AGTTTAGGAG	1416
713	TAAGAGTCTT GttTTTACT CAAATTGGGA AATCCATTCC ATTTTGTGAA	1466
714	TTGTGACATA ATAATAGCAG TGGTAAAAGT ATTTGCTTAA AATTGTGAGC	1516
715	GAATTAGCAA TAACATACAT GAGATAACTC AAGAAATCAA AAGATAGTTG	1566
716		
717	ACCAGGATTT CCTTGACTTC TTTG	1640
718		
719		
720		
721	•	
722	(2) INFORMATION FOR SEQUENCE ID NO: 12:	
723	(i) SEQUENCE CHARACTERISTICS:	
724	(A) LENGTH: 943 base pairs	
725	(B) TYPE: nucleic acid	
726		
727	(ii) MOLECULE TYPE: genomic DNA	
728	(ix) FEATURE:	
729	(A) NAME/KEY: MAGE-31 gene	
730	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:	
731		
732		
733		
734	GGATCCTCCA CCCCAGTAGA GTGGGGACCT CACAGAGTCT GGCCAACCCT	50
735	CCTGACAGTT CTGGGAATCC GTGGCTGCGT TTGCTGTCTG CACATTGGGG	100
736	GCCCGTGGAT TCCTCTCCCA GGAATCAGGA GCTCCAGGAA CAAGGCAGTG	150
737		200
738		250
739		300
740		350
741	CTCTCACTTC CTCCTTCAGG TTCTGAGGGG ACAGGCTGAC CTGGAGGACC	400

742 AGAGGCCCCC GGAGGAGCAC TGAAGGAGAA GATCTGTAAG TAAGCCTTTG

Raw Sequence Listing

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743	TTAGAGCCTC CAAGGTTCCA TTCAGTACTC AGCTGAGGTC TCTCACATGC	500
744	TCCCTCTCTC CCCAGGCCAG TGGGTCTCCA TTGCCCAGCT CCTGCCCACA	550
745	CTCCCGCCTG TTGCCCTGAC CAGAGTCATC	580
746	ATG CCT CTT GAG CAG AGG AGT CAG CAC TGC AAG CCT GAA GAA	622
747	GGC CTT GAG GCC CGA GGA GAG GCC CTG GGC CTG GTG GGT GCG	664
748	CAG GCT CCT GCT ACT GAG GAG CAG GAG GCT GCC TCC TCT	706
749	TCT AGT GTA GTT GAA GTC ACC CTG GGG GAG GTG CCT GCC	748
750	GAG TCA CCA GAT CCT CCC CAG AGT CCT CAG GGA GCC TCC AGC	790
751	CTC CCC ACT ACC ATG AAC TAC CCT CTC TGG AGC CAA TCC TAT	832
752	GAG GAC TCC AGC AAC CAA GAA GAG GAG GGG CCA AGC ACC TTC	874
753	CCT GAC CTG GAG TCT GAG TTC CAA GCA GCA CTC AGT AGG AAG	916
754	GTG GCC AAG TTG GTT CAT TTT CTG CTC	943
755		
756		
757		
758		
759	(2) INFORMATION FOR SEQUENCE ID NO: 13:	
760	(i) SEQUENCE CHARACTERISTICS:	
761	(A) LENGTH: 1067 base pairs	
762	(B) TYPE: nucleic acid	
763	(D) TOPOLOGY: linear	
764		
765	(ix) FEATURE:	
766	(A) NAME/KEY: cDNA MAGE-4	
767	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:	
768		
769		
770		
771	GGG CCA AGC ACC TCG CCT GAC GCA GAG TCC TTG TTC CGA	39
772	GAA GCA CTC AGT AAC AAG GTG GAT GAG TTG GCT CAT TTT CTG	81
773	CTC CGC AAG TAT CGA GCC AAG GAG CTG GTC ACA AAG GCA GAA	123
774	ATG CTG GAG AGA GTC ATC AAA AAT TAC AAG CGC TGC TTT CCT	165
775	GTG ATC TTC GGC AAA GCC TCC GAG TCC CTG AAG ATG ATC TTT	207
776	GGC ATT GAC GTG AAG GAA GTG GAC CCC GCC AGC AAC ACC TAC	249
777	ACC CTT GTC ACC TGC CTG GGC CTT TCC TAT GAT GGC CTG CTG	291
778	GGT AAT AAT CAG ATC TTT CCC AAG ACA GGC CTT CTG ATA ATC	
779	GTC CTG GGC ACA ATT GCA ATG GAG GGC GAC AGC GCC TCT GAG	375
780	GAG GAA ATC TGG GAG GAG CTG GGT GTG ATG GGG GTG TAT GAT	417
781	GGG AGG GAG CAC ACT GTC TAT GGG GAG CCC AGG AAA CTG CTC	459
782	ACC CAA GAT TGG GTG CAG GAA AAC TAC CTG GAG TAC CGG CAG	501
783	GTA CCC GGC AGT AAT CCT GCG CGC TAT GAG TTC CTG TGG GGT	543
784	CCA AGG GCT CTG GCT GAA ACC AGC TAT GTG AAA GTC CTG GAG	585
785	CAT GTG GTC AGG GTC AAT GCA AGA GTT CGC ATT GCC TAC CCA	627
786	TCC CTG CGT GAA GCA GCT TTG TTA GAG GAG GAA GAG GGA GTC	669
787	TGAGCATGAG TTGCAGCCAG GGCTGTGGGG AAGGGGCAGG GCTGGGCCAG	719
788	TGCATCTAAC AGCCCTGTGC AGCAGCTTCC CTTGCCTCGT GTAACATGAG	769
789	GCCCATTCTT CACTCTGTTT GAAGAAAATA GTCAGTGTTC TTAGTAGTGG	819
790	GTTTCTATTT TGTTGGATGA CTTGGAGATT TATCTCTGTT TCCTTTTACA	869
791	ATTGTTGAAA TGTTCCTTTT AATGGATGGT TGAATTAACT TCAGCATCCA	919
792	AGTTTATGAA TCGTAGTTAA CGTATATTGC TGTTAATATA GTTTAGGAGT	969
793	AAGAGTCTTG TTTTTTATTC AGATTGGGAA ATCCGTTCTA TTTTGTGAAT	1019
		1019 1067

Raw Sequence Listing

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796 797 798 799 800 801 802 803 804 805 806 807 808	(2) INFORMATION FOR SEQUENCE ID NO: 14: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 226 base pairs (B) TYPE: nucleic acid (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA (ix) FEATURE: (A) NAME/KEY: MAGE-5 gene (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:	
809	AGGATCCCCA GGAGGCCCTA GAGGAGCACC AAAGGAGAAG ATCTGTAAGT	50
810	AAGCCTTTGT TAGAGCCTCC AAGGTTCAGT TTTTAGCTGA GGCTTCTCAC	100
811 812	ATGCTCCCTC TCTCTCCAGG CCAGTGGGTC TCCATTGCCC AGCTCCTGCC CACACTCCTG CCTGTTGCGG TGACCAGAGT CGTC	150 184
813	ATG TCT CTT GAG CAG AAG AGT CAG CAC TGC AAG CCT GAG GAA	226
814		
815	(2) INFORMATION FOR SEQUENCE ID NO: 15:	
816 817	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs	
818	(B) TYPE: nucleic acid	
819	· , ,	
820 821	(ii) MOLECULE TYPE: cDNA (ix) FEATURE:	
822	(A) NAME/KEY: MAGE-6 gene	
823	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:	
824		
825 826		
827	TAT TTC TTT CCT GTG ATC TTC AGC AAA GCT TCC GAT TCC TTG	42
828	CAG CTG GTC TTT GGC ATC GAG CTG ATG GAA GTG GAC CCC ATC	84
829	GGC CAC GTG TAC ATC TTT GCC ACC TGC CTG GGC CTC TCC TAC	126
830 831	GAT GGC CTG CTG GGT GAC AAT CAG ATC ATG CCC AGG ACA GGC TTC CTG ATA ATC ATC CTG GCC ATA ATC GCA AGA GAG GGC GAC	168
832	TGT GCC CCT GAG GAG	210 225
833		223
834		
835		
836 837		
838	(2) INFORMATION FOR SEQUENCE ID NO: 16:	
839	(i) SEQUENCE CHARACTERISTICS:	
840	(A) LENGTH: 166 base pairs	
841 842	(B) TYPE: nucleic acid (D) TOPOLOGY: linear	
843	(ii) MOLECULE TYPE: genomic DNA	
844	(ix) FEATURE:	
845	(A) NAME/KEY: MAGE-7 gene	
846 847	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:	
848		

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849																
850	ACA	AGC	ACT	AGT	TTC	CTT	GTG	ATC	TAT	GGC	AAA	GCC	TCA	GAG		42
851	TGC	ATG	CAG	GTG	ATG	TTT	GGC	ATT	GAC	ATG	AAG	GAA	GTG	GAC.		84
852	CCC	GCG	GCC	ACT	CCT	ACG	TCT	TGT	ACC	TGC	TTG	GGC	CTC	TCC	;	126
853	TAC	AAT	GGC	CTG	CTG	GGT	GAT	GAT	CAG	AGC	ATG	CCC	GAG	A	:	166
854																

PAGE: 1

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/07/807,043

DATE: 07/18/92 TIME: 11:55:30

LINE ERROR

ORIGINAL TEXT

24	Wrong application Serial Number	(A) APPLICATION NUMBER: 07/807,043
34	Response Exceeds Line Limitations	(b) FILING DATE: 9-JULY-1991
56	Wrong Or Missing Strandedness Value	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1
77	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2
144	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3
162	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4
208	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5
339	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7
339	Entered and Calc. Seq. Length differ	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7
402	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8
402	Entered and Calc. Seq. Length differ	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8
536	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9
641	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1
676	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1
730	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1
767	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1
805	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1
823	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1
846	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1

PAGE: 1

SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/07/807,043

DATE: 07/18/92 TIME: 11:55:30

MANDATORY IDENTIFIER THAT WAS NOT FOUND

COUNTRY STRANDEDNESS PAGE: 1

SEQUENCE CORRECTION REPORT PATENT APPLICATION US/07/807,043

DATE: 07/18/92 TIME: 11:55:30

LINE ORIGINAL TEXT

CORRECTED TEXT

3	(i)	APPLICANTS:	Boon	n, Thierr	у,	Van	den	(i)	APPLICANT:	Boon	, Th	ier	ry,	Van	den i	E
50	(2)	INFORMATION F	OR SE	EQUENCE 1	1 D	10:	1:	(2)	INFORMATION	FOR	SEQ	ID	NO:	1:		
71	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	2:	(2)	INFORMATION	FOR	SEQ	ID	NO:	2:		
138	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	3:	(2)	INFORMATION	FOR	SEQ	ID	NO:	3:		
156	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	4:	(2)	INFORMATION	FOR	SEQ	ID	NO:	4:		
202	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	5:	(2)	INFORMATION	FOR	SEQ	ID	NO:	5:		
313	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	6:	(2)	INFORMATION	FOR	SEQ	ID	NO:	6:		
333	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	7:	(2)	INFORMATION	FOR	SEQ	ID	NO:	7:		
394	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	8:	(2)	INFORMATION	FOR	SEQ	ID	NO:	8:		
528	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	9:	(2)	INFORMATION	FOR	SEQ	ID	NO:	9:		
633	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	10:	(2)	INFORMATION	FOR	SEQ	ID	NO:	10:		
668	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	11:	(2)	INFORMATION	FOR	SEQ	ID	NO:	11:		
722	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	12:	(2)	INFORMATION	FOR	SEQ	ID	NO:	12:		
759	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	13:	(2)	INFORMATION	FOR	SEQ	ID	NO:	13:		
797	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	14:	(2)	INFORMATION	FOR	SEQ	ID	NO:	14:		
815	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	15:	(2)	INFORMATION	FOR	SEQ	ID	NO:	15:		
838	(2)	INFORMATION	FOR S	SEQUENCE	ID	NO:	16:	(2)	INFORMATION	FOR	SEQ	ID	NO:	16:		